

Prostate-Specific Transcript from TCR γ locus

GGGCAAGAGTTGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATCATTACA 60
 <----- J gamma 1.2 ----->
 M Q M F P P S P L F F F L Q L L K Q S ²⁰ S R R
 GATAACAACTTGATGCAGATGTTTCCCCAAGCCCACTATTTTCTTCCTTCAATTGCTGAAACAAAGCTCCAGAAGGC 140
 <----- C gamma 1 (exon CI) ----->
 L E H T F V F L R N F S L M L L R Y ⁴⁰ I G K K R R A T R
 TGGAACATACCTTTGTCTTCTTGAGAAATTTTCCCTGATGTTATTAAGATACATTGGCAAGAAAAGAAGAGCAACACGA 220

 F W D P R R G T P ⁵⁸
 M K T N D T Y M K F S W L T V P E K
 TTCTGGGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGAAATTTAGCTGGTTAACGGTGCCAGAAAAG 300

 S ²⁰ L D K E H R C I V R H E N N K N G V D Q ⁴⁰ E I I F P P
 TCACTGGACAAAGAACACAGATGTATCGTCAGACATGAGAATAATAAAAACGGAGTTGATCAAGAAATTATCTTTCCTCC 380

 I K T D V I T M D P K D N C ⁶⁰ S K D A N D T L L L Q L
 AATAAAGACGGATGTCATCACAATGGATCCCAAAGACAATTGTTCAAAGATGCAAATGATACACTACTGCTGCAGCTCA 460
 -----><----- C gamma 1 (exon CII) -----><-----
 T N T S A Y Y M Y ⁸⁰ L L L L L K S V V Y F A I I T C C L
 CAAACACCTCTGCATATTACATGTACCTCCTCGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCTG 540
 ----- C gamma 1 (exon CIII) -----
 L ¹⁰⁰ R R T A F C C N G E K ¹¹¹ S
 CTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCTCATCGG 620
 ----->
 TTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTCACTTCTCATGTGTGT 700
 ACTATTCTATCATTATTGTATAACGGTTTTTCAAACCAGTGGGCACACAGAGAACCTCACTCTGTAATAACAATGAGGAAT 780
 AGCCACGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCAAATAGCGCCTGCTATAGTG 860
 TAGACATCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTTCTTTAATCAGATAACTGCCTGGAAGCCTTTCATTTTAC 940
 ACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTTCCGTAATAAGCAAAATAAATTTAAAAAATG 1020
 AAAAGTT 1027

Underlined sequences are:

- Transcription Initiation Site (within GCAAGAG sequence)
- Polyadenylation Signal (AATAAA)

Double Underlined sequences are:

- Possible Translation Initiation Codons (ATG)

FIG. 1

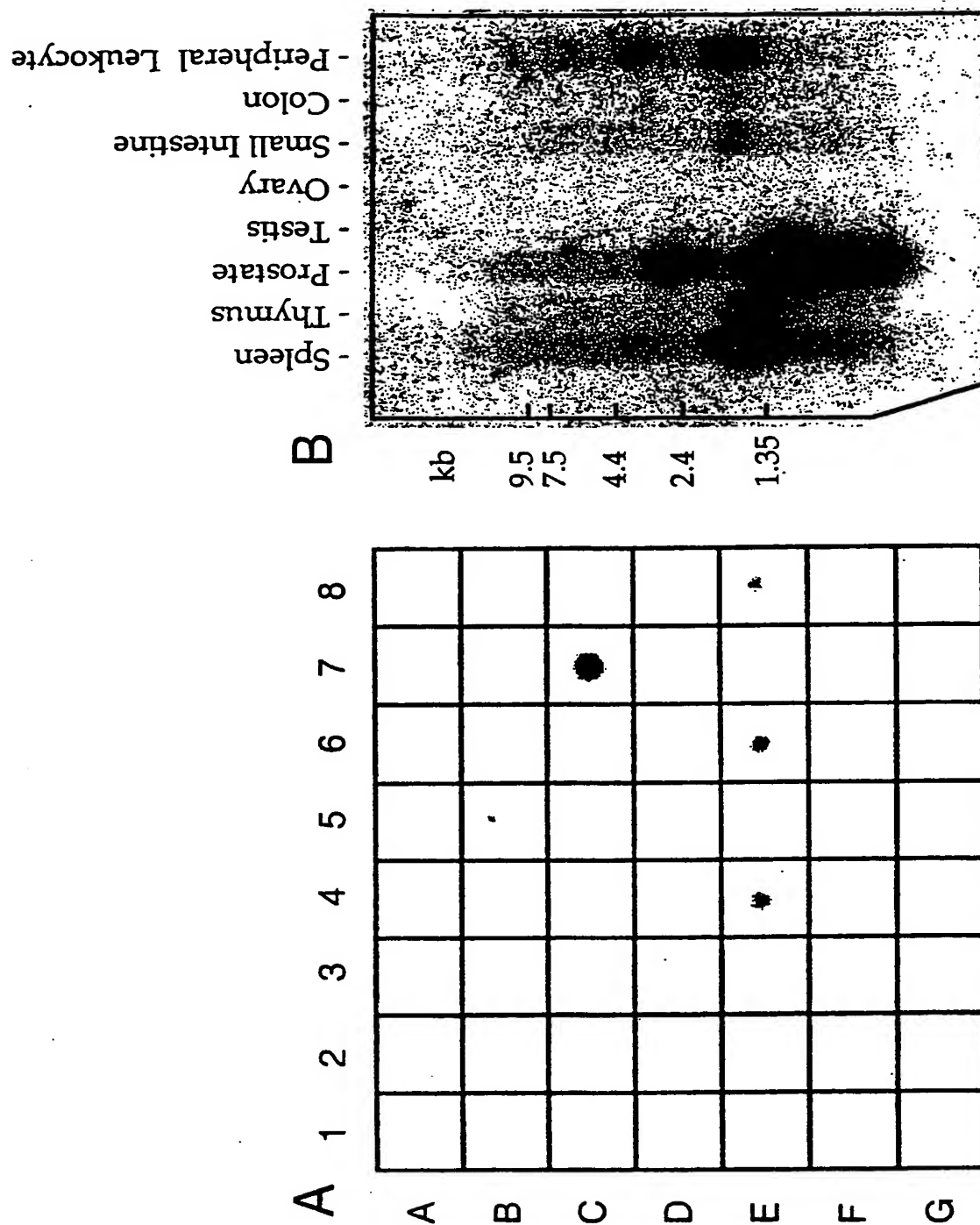


FIG. 2

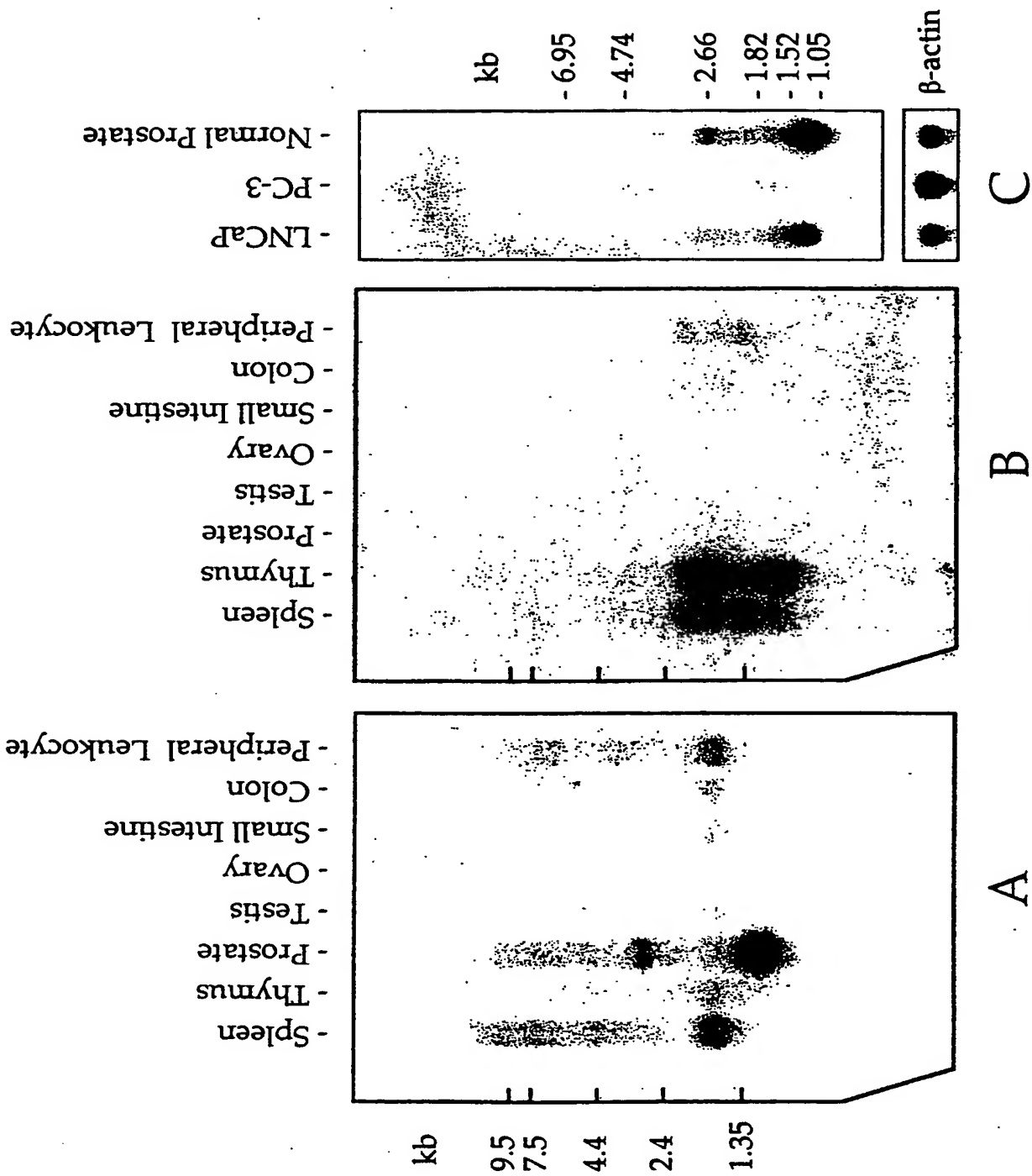


FIG. 3

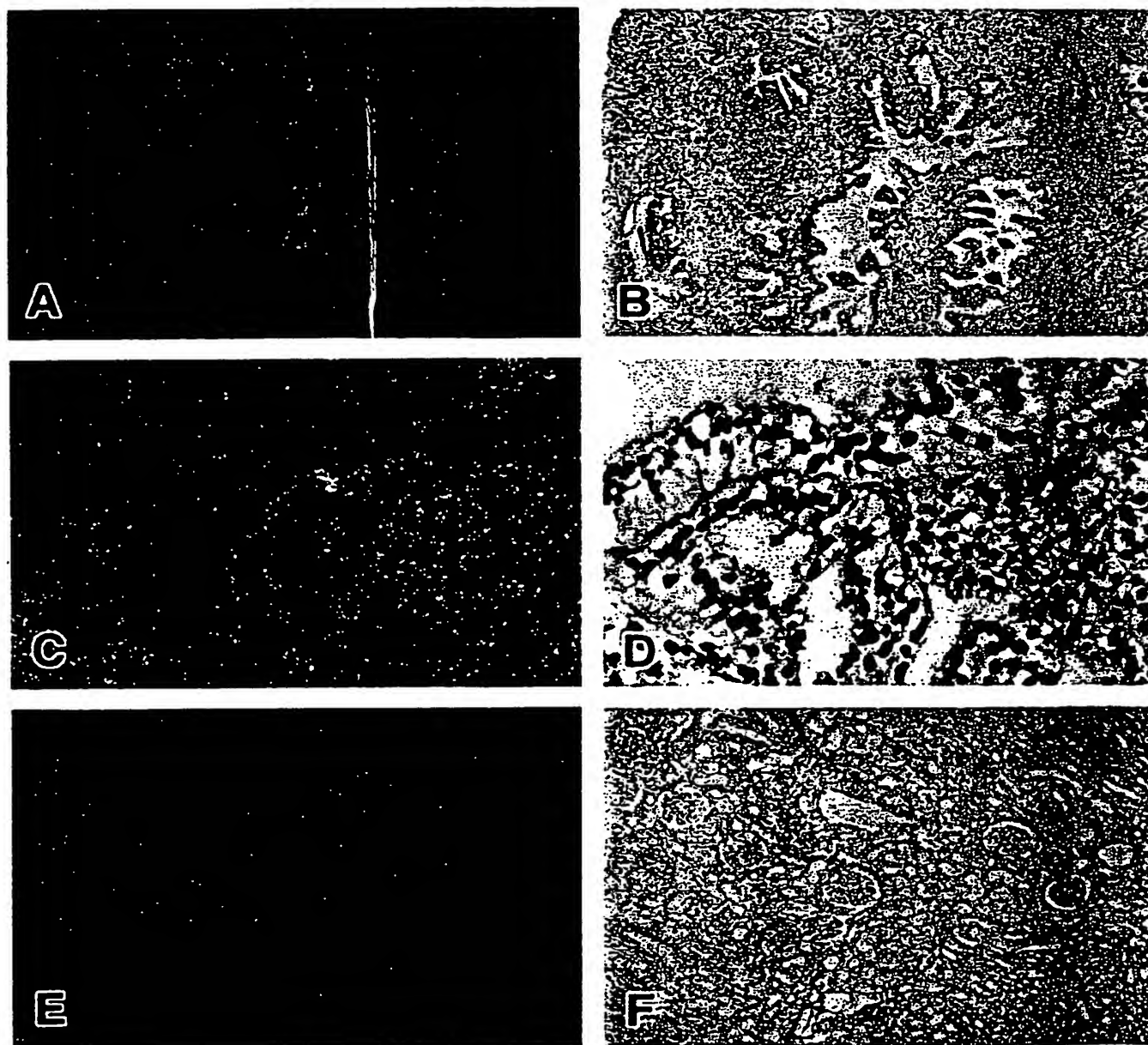


FIG. 4

5/14

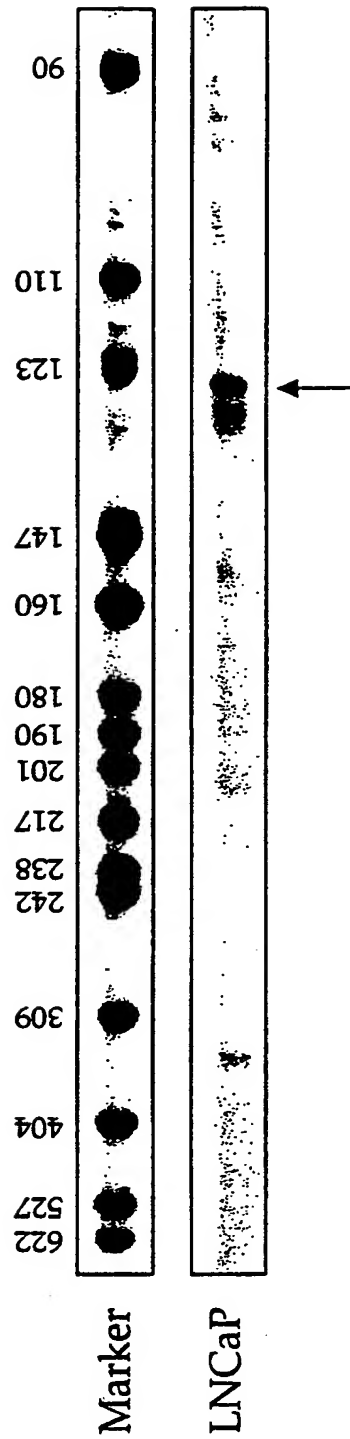


FIG. 5

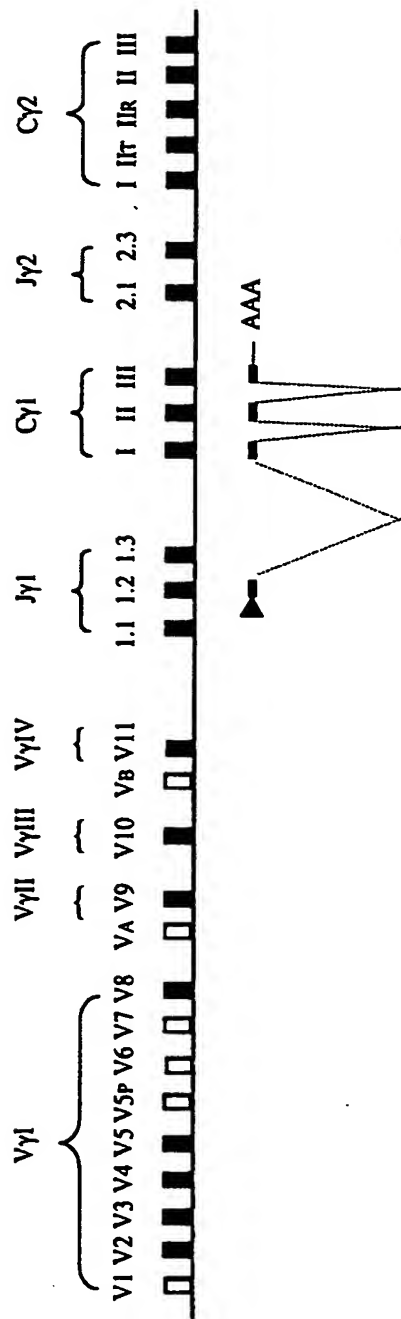


FIG. 6

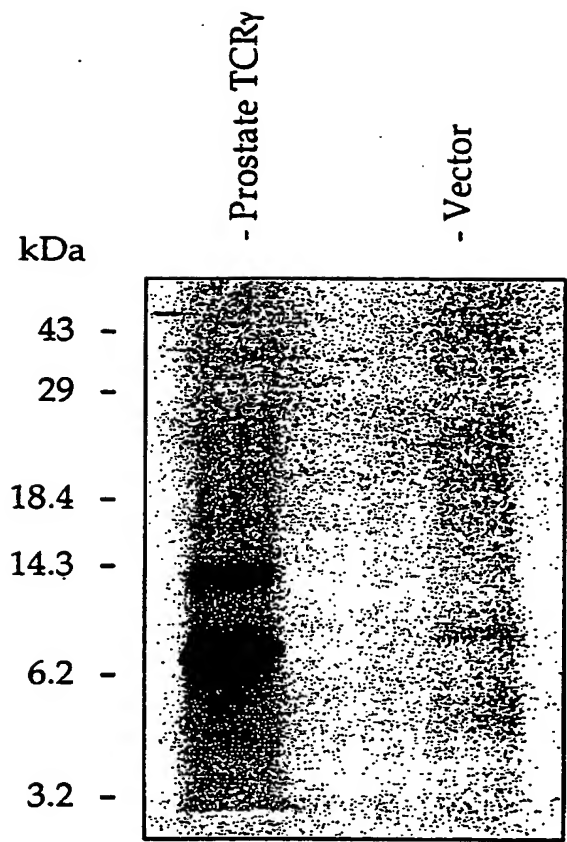
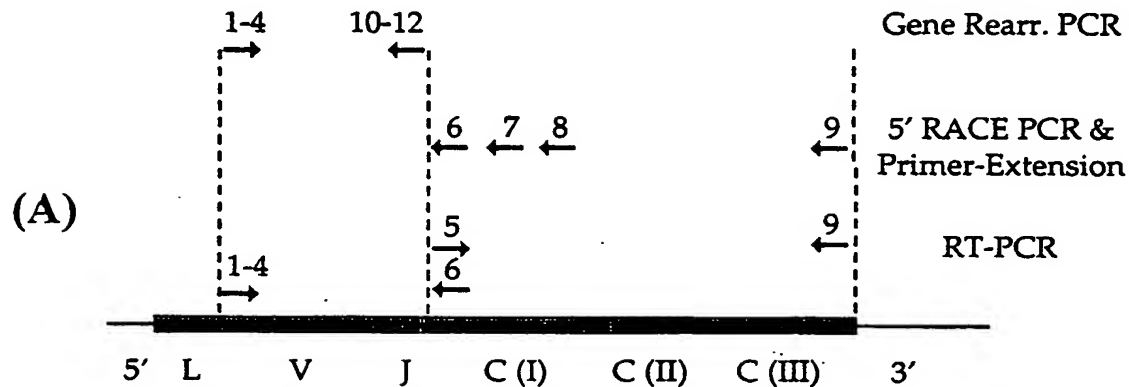


FIG. 7

TABLE 1. Primers (→) used for analysis of the prostate TCR γ transcript

(B)

Name	Annealing	Primer Sequence 5' -> 3'
1. TCRV γ I.F	V γ , subgroup I	AAC TTGGAAGGGRGAACRAAGTCAGTC
2. TCRV γ II.F	V γ , subgroup II	AGTACTAAAACGCTGTCAAAAACAGCC
3. TCRV γ III.F	V γ , subgroup III	TTGGACTTGGATTATCAAAAGTGG
4. TCRV γ IV.F	V γ , subgroup IV	TTGGGCAGTTGGAACAACCTGAAA
5. TCRC γ .F	C γ , exon CI	GATAACAACCTTGATGCAGATGTTTCCC
6. TCRC γ .R1	C γ , exon CI	GGGAAACATCTGCATCAAGTTGTTTATC
7. TCRC γ .R2	C γ , exon CI	CTGGAGCTTTGTTTCAGCAATTGAAGG
8. TCRC γ .R3	C γ , exon CI	CTCAAGAAGACAAAGGTATGTTCCAGC
9. TCRC γ .R4	C γ , exon CIII	TTATGATTTCTCTCCATTGCAGCAG
10. TCRJ γ 1.1.R	J γ 1.1	GAAGTTACTATGAGCTTAGTCCCTT
11. TCRJ γ 1.2.R	J γ 1.2	AAGCTTTGTTCCGGGACCAAATAC
12. TCRJ γ 1.3.R	J γ 1.3	TACCTGTGACAACAAGTGTGTTC

R=A+G

FIG. 8

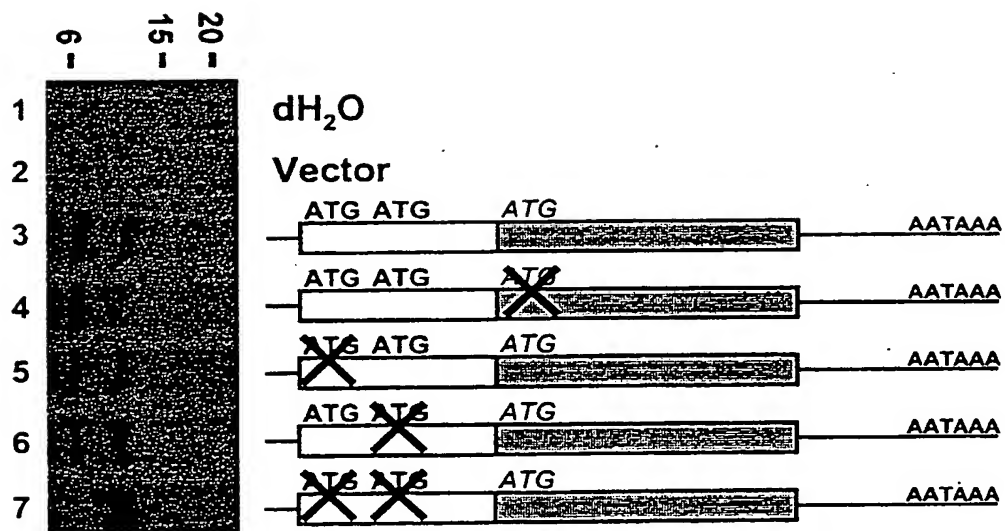


FIG. 9

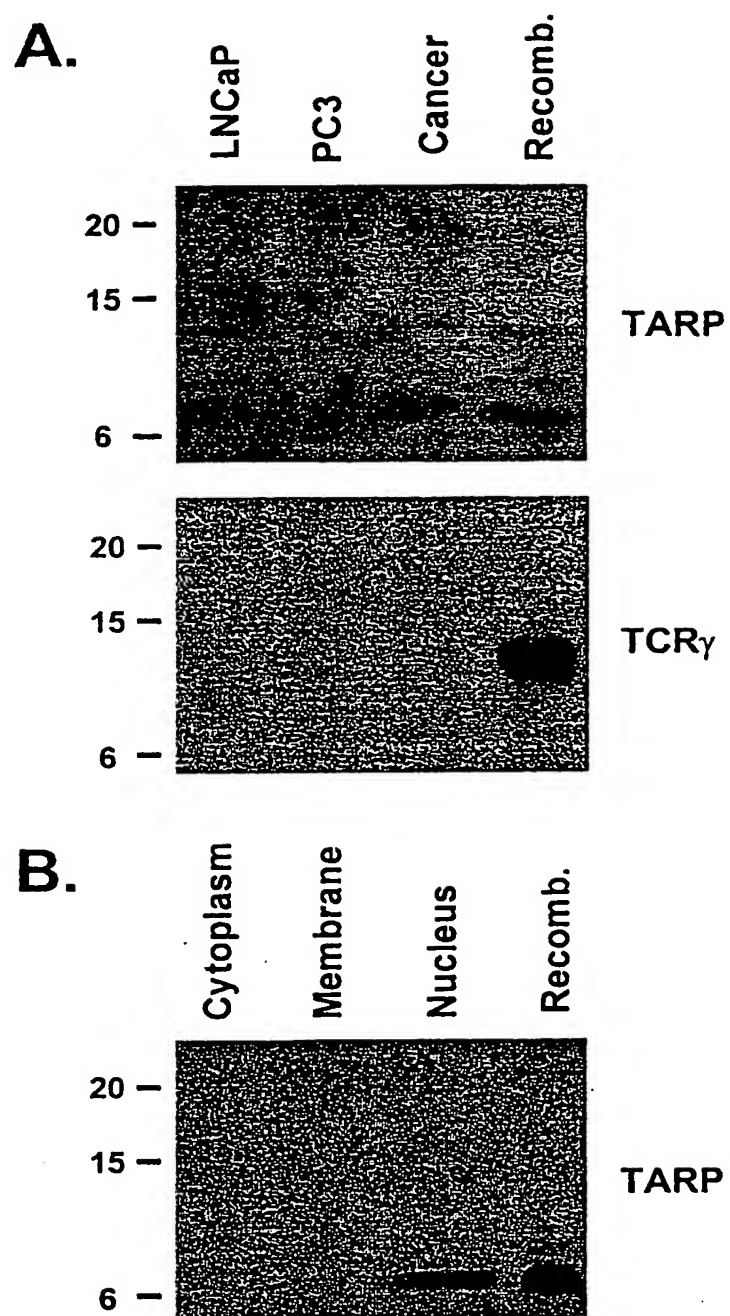


FIG. 10

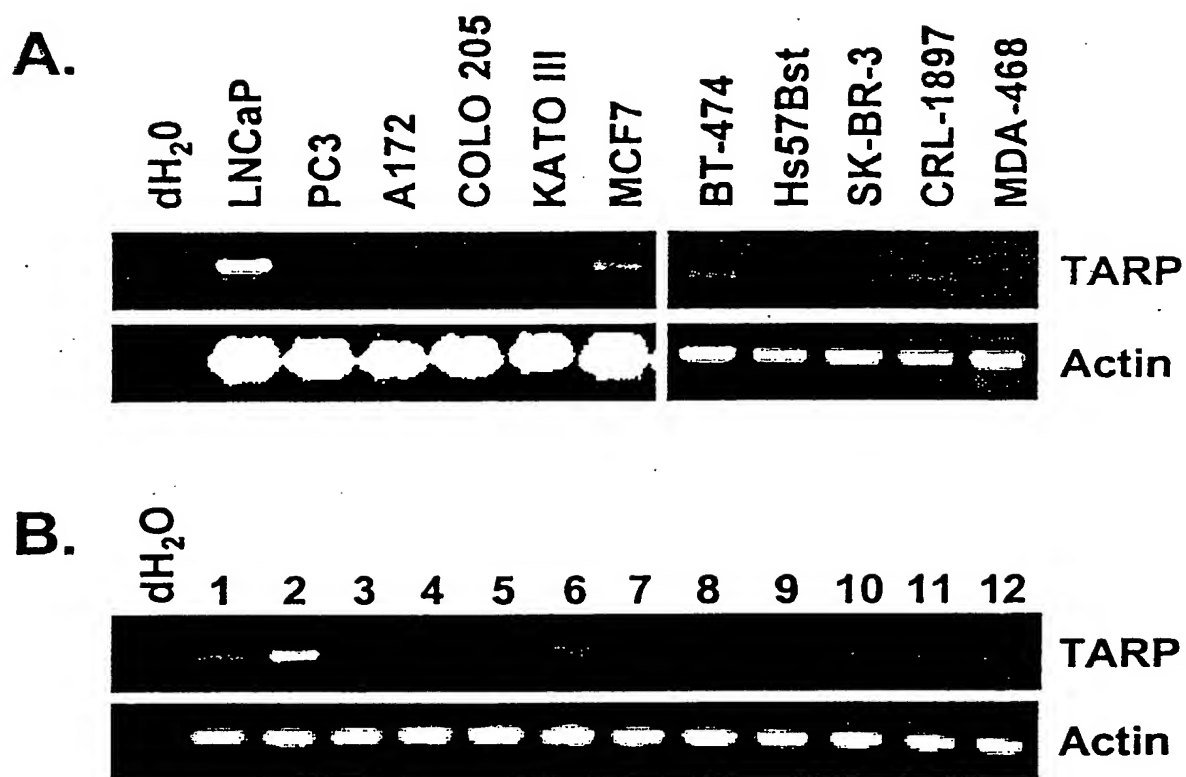


FIG. 11

12/14

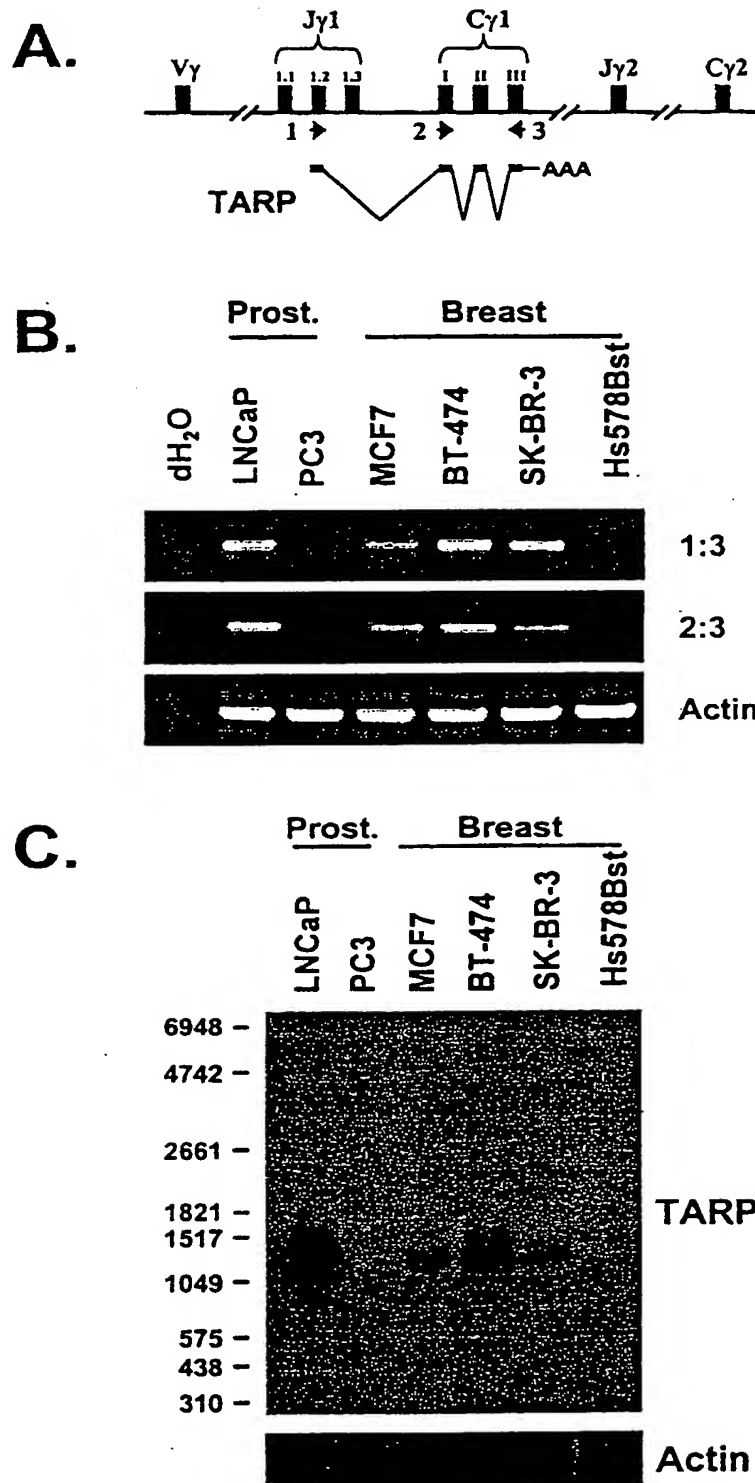


FIG. 12

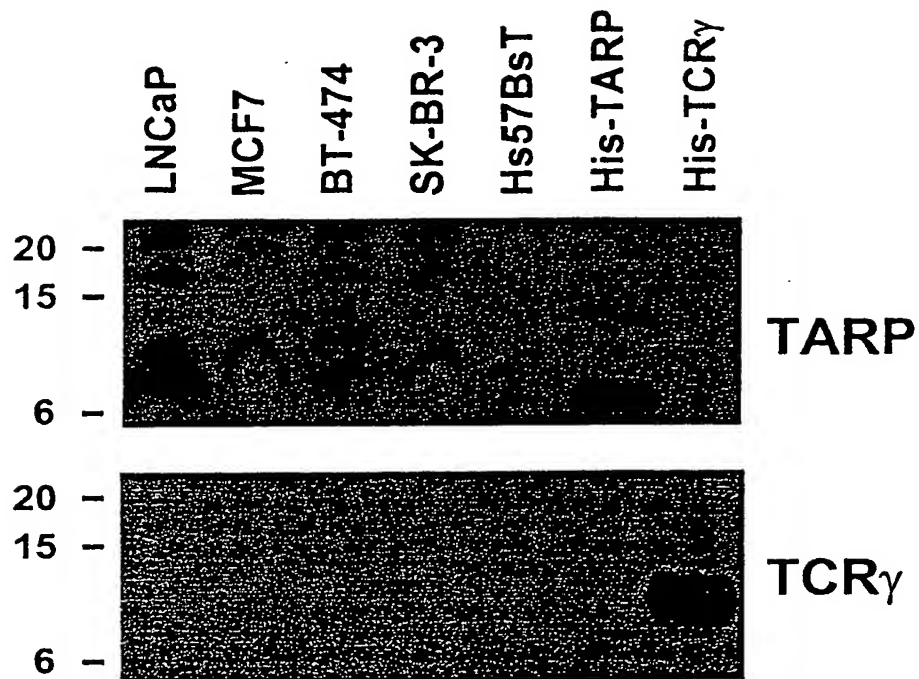


FIG. 13

A.

MQMFPPSP[L]FFFLQL[L]KQSSRR

[L]EHTFVF[L]RNFSLM[L]LRYIGKKRRATRFWDPRRGTP

B.

TARP	[G]	K	[K]	R	[R]	A	T	R	[F]	[W]	[D]	[P]	[R]	R	[G]	[T]
DTUP1	[G]	S	[K]	D	[R]	S	V	Q	[F]	[W]	[D]	[P]	[R]	N	[G]	[T]
YTUP1	[G]	S	[K]	D	[R]	G	V	L	[F]	[W]	[D]	[K]	[K]	S	[G]	[N]

FIG. 14